Listing of the Claims

- 1. (Previously presented) A wafer blade for picking up wafers on a top surface of the blade and for detecting any undesirable contact with wafers on a bottom surface of the blade comprising:
- a blade body of generally elongated shape having a top surface and a bottom surface parallel to each other; and
- a strain sensor mounted on and at least partially covers said bottom surface of the blade body, said strain sensor is sensitive to at least 1 μm displacement.
- 2. (Original) A wafer blade for picking up wafers on a top surface of the blade according to claim 1, wherein said strain sensor is a piezoelectric sensing device.

3. (Cancelled)

4. (Original) A wafer blade for picking up wafers on a top surface of the blade according to claim 1, wherein said blade body is formed in the shape of a fork.

4, 1

- 5. (Original) A wafer blade for picking up wafers on a top surface of the blade according to claim 1, wherein said blade body is formed in the shape of a rectangle.
- 6. (Original) A wafer blade for picking up wafers on a top surface of the blade according to claim 1, wherein said blade body is formed of metal or ceramic.
- 7. (Original) A wafer blade for picking up wafers on a top surface of the blade according to claim 1, wherein said strain sensor is formed in the shape of a thin film.
- 8. (Original) A wafer blade for picking up wafers comprising:
- a blade body of fork shape having a top surface for picking up wafers and a bottom surface; and
- a piezoelectric sensor mounted on said bottom surface for detecting any undesirable touching with wafers.
- 9. (Original) A wafer blade for picking up wafers according to claim 8, wherein said piezoelectric sensor is a thin film sensor.

- 10. (Original) A wafer blade for picking up wafers according to claim 8, wherein said piezoelectric sensor is capable of detecting a strain imposed on said sensor.
- 11. (Previously Presented) A wafer blade for picking up wafers according to claim 8, wherein said blade body is fabricated of a metal or a ceramic.
- 12. (Original) A wafer blade for picking up wafers according to claim 8, wherein said piezoelectric sensor covers substantially the entire surface of said blade body.
- 13. (Original) A wafer blade for picking up wafers according to claim 8, wherein said piezoelectric sensor only covers partially the bottom surface of said blade body.
- 14. (Previously presented) A wafer pick-up system comprising:
- a wafer blade having a blade body of generally elongated shape; said blade body having a top surface and a bottom surface;
- a strain sensor mounted on said bottom surface of the blade body, said strain sensor is sensitive to at least 1 μm displacement; and

an alarm device for receiving a signal from said strain sensor when a strain is detected and for sending an alarm signal to alert an operator.

- 15. (Original) A wafer pick-up system according to claim
 14, wherein said blade body has a fork shape.
- 16. (Original) A wafer pick-up system according to claim
 14, wherein said blade body has a rectangular shape.
- 17. (Original) A wafer pick-up system according to claim
 14, wherein said alarm device receives an electrical current from
 said strain sensor when a strain is detected.
- 18. (Original) A wafer pick-up system according to claim
 14, wherein said alarm device sends a signal to a process
 controller when a strain is detected by the strain sensor.
- 19. (Original) A wafer pick-up system according to claim
 14, wherein said alarm signal is a warning light.

20. (Original) A wafer pick-up system according to claim 14, wherein said strain sensor is a piezoelectric thin film sensor.